



Lebanon Evangelical School
for Boys and Girls

Loueizeh - Baabda

Details of content of exams for students that want to move from Class 10 to Class 11s

Chemistry

1- Chapter 1-electronic configuration

2- Chapter 2-moles-molar mass

2- Chapter 3-dissolution of ionic compounds-electronegativity of atoms-electronegativity difference - ionic bonds-moles- mole-ions

3- Chapter 4-balancing-law of definite proportions-limiting reactant- excess mass-Avogadro's law percentage yield

<https://www.youtube.com/watch?v=o1ncXbTw9RY&feature=youtu.be>

<https://www.youtube.com/watch?v=h8dlIEYnGu4&feature=youtu.be>

<https://www.youtube.com/watch?v=FCzZfeqs4dM&feature=youtu.be>

<https://www.youtube.com/watch?v=o2aAYB0u6Tw&feature=youtu.be>

https://www.youtube.com/watch?v=xMh81o0P_ig&feature=youtu.be

<https://www.youtube.com/watch?v=FDLWEQYaZ0k&feature=youtu.be>

<https://www.youtube.com/watch?v=dVmBC0nwFfg&feature=youtu.be>

<https://www.youtube.com/watch?v=9tToC-n7FeE&feature=youtu.be>

<https://www.youtube.com/watch?v=xNtAH07Dc5s&feature=youtu.be>

<https://www.youtube.com/watch?v=gJwNqgt8VAs&feature=youtu.be>

<https://www.youtube.com/watch?v=BE6NrimXgLU&feature=youtu.be>

<https://www.youtube.com/watch?v=0JrvIs4Eltk&feature=youtu.be>

<https://www.youtube.com/watch?v=FnLic1bDMs8&feature=youtu.be>

<https://www.youtube.com/watch?v=i8Nf474YiA0&feature=youtu.be>

<https://www.youtube.com/watch?v=FyufigCpliE&feature=youtu.be>

Physics

Chapter1: Electrostatic

Chapter7: Vibration and Waves

Chapter8: Reflection and Refraction

Chapter16: Forces and Interaction

Chapter 17: Newton's Laws

Forces

Lesson

<https://www.youtube.com/watch?v=fC1nblzzVVA>

<https://www.youtube.com/watch?v=3frP35uzyIU&list=PLSX52PljErjzTqK9aN4bYmjBRVRlCZYpf&index=8&t=0s>

https://youtu.be/gUeb1_GqFsQ

https://youtu.be/l2_FUr4StJg

<https://youtu.be/aO3iBe9VvmA>

<https://youtu.be/ZNy1qz9S0nc>

exercises :

<https://youtu.be/OzySL-MCjy8>

<https://youtu.be/fSlFNzapAe8>

<https://youtu.be/5VpcFtFO7gY>

<https://youtu.be/ZQ5t9ODNb4A>

<https://youtu.be/FAxB1C15EkU>

https://youtu.be/ozg8kWm8_SY

<https://youtu.be/LqMUqVqBafc>

<https://youtu.be/RU89Q7MmWww>

<https://youtu.be/0FNdO118j3s>

<https://youtu.be/bcKdpkzuOsM>

<https://youtu.be/t6IQRWPVC7Q>

Newton's Laws

Lesson

<https://youtu.be/mljsRJ4XVO4>

<https://youtu.be/KyluKHOGXsc>

<https://youtu.be/47oVDsOcUgE>

<https://youtu.be/6N6-hjMMN74>

exercises

https://youtu.be/-V_l8f-Qugs

https://youtu.be/WWLl0Y_p8rk

<https://youtu.be/L6ZlytGNG2s>

<https://youtu.be/kQBoeBlIzes>

<https://youtu.be/7hHYZBktkWs>

<https://youtu.be/fUFyRjv94ys>

<https://youtu.be/krtEt90gwqY>

<https://youtu.be/7kCfIXh9UNs>

<https://youtu.be/U1XurpQPdDU>

waves – reflection refraction

lesson

<https://youtu.be/oQIpDHYEu20>

<https://youtu.be/bR1jtYmmANY>
<https://youtu.be/4KGVFKOe-tY>
exercises
<https://youtu.be/Gx6fNdYLT0Y>
<https://youtu.be/xS2nUAhZK2g>
<https://youtu.be/IgYQWFba0sg>

electrostatics

https://www.youtube.com/watch?v=U6s2jE_fMUg
<https://www.youtube.com/watch?v=NXMgvrS8Gr8>
<https://www.youtube.com/watch?v=2GQTfpDE9DQ>

Maths

Book: Mathematics. Collection: Puissance (Al- Ahlia)

Chapter Topic

~~2 Absolute value and intervals~~

~~3 Powers and radicals~~

7 Polynomials

~~11 Trigonometric lines~~

13 First degree equations and inequalities in one unknown

~~5 Addition of vectors~~

~~6 Multiplication of a vector by a real number~~

17 Linear system

9 Coordinate system

12 Scalar product

<https://youtu.be/wNdSeFYdPLA>
<https://youtu.be/pJJGXZu9bjU>
<https://youtu.be/sRkboOw5oKs>
<https://youtu.be/Pp8eYGqDmRA>
<https://youtu.be/ddQDIKkSrLU>
<https://youtu.be/pWyZ4hRklks>
<https://youtu.be/66yLeDvS29Q>
<https://youtu.be/G9TFUKHYyEk>
<https://youtu.be/QEzR1fZxDkk>
<https://youtu.be/Xe2P6k289y0>
<https://youtu.be/VCCnYNEmlDI>
<https://youtu.be/8Zi8kj2GqZw>
<https://youtu.be/KhWvdmjxXdY>
<https://youtu.be/W6b3s2Pwdb8>
<https://youtu.be/id4T5jFt1PU>
<https://youtu.be/WiSom8HASZo>
<https://youtu.be/5T3Mwt8dsQg>
<https://youtu.be/zdLuk-GNmlQ>
<https://youtu.be/GUiVsCmRD6I>
<https://youtu.be/8jcF279c300>
<https://youtu.be/6gYqGVzFNjY>
https://youtu.be/LHY6g_09vCs
<https://youtu.be/Qgn4BmoquTM>

Biology

- The nervous system and the Hormonal communication endocrine system
- <https://youtu.be/mTL4Id8eCvQ>
- <https://youtu.be/Ez3pzlOzB7s>
- <https://youtu.be/dijfKwlZib4>
- <https://youtu.be/L-szQyymOU4>
- <https://youtu.be/d-rOsl6tk4Q>
- <https://youtu.be/wxNa83B3-a0>
- https://drive.google.com/file/d/1YKnET_9ldpPo_77xz8cHsEE5lF4YWAK/view?usp=sharing
- <https://youtu.be/NqrQlsbED5I>
- <https://youtu.be/Zo-pDBYL78A>
- <https://youtu.be/Zc5kgSU3iYg>
- <https://youtu.be/piL2AXakTcw>
- <https://youtu.be/PBnPAkvXlEs>
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Details of content of exams for students that want to move from Class 11S to Class 12M

Chemistry

- 1- Law of conservation of mass-stoichiometry-Avogadro's law about gases-molar volume of gases percentage yield
- 2- Preparation of aqueous solutions-mass concentration-molar concentration-% mass-dilution of aqueous solutions
- 3- Quantitative analysis(no qualitative analysis)
- 4- Empirical and molecular formulae

<https://www.youtube.com/watch?v=Zw8xgsN9qKg&feature=youtu.be>

<https://www.youtube.com/watch?v=VkmNZ9u9rYk&feature=youtu.be>

<https://www.youtube.com/watch?v=v0-1ape0ojM&feature=youtu.be>

https://www.youtube.com/watch?v=9Y4_fkqbFwx&feature=youtu.be

<https://www.youtube.com/watch?v=U6T7oGNAq5k&feature=youtu.be>

<https://www.youtube.com/watch?v=2-oNsP1m-1Y&feature=youtu.be>

https://www.youtube.com/watch?v=Z-g_QjdvLTQ&feature=youtu.be

<https://www.youtube.com/watch?v=qwUZANr9P1E&feature=youtu.be>

<https://www.youtube.com/watch?v=YylKTFchOUY&feature=youtu.be>

<https://www.youtube.com/watch?v=r1JgHEI0zVs&feature=youtu.be>

<https://www.youtube.com/watch?v=ZuPuWIRGNBw&feature=youtu.be>

<https://www.youtube.com/watch?v=IOfcbd5xiOA&feature=youtu.be>

https://www.youtube.com/watch?v=lgsx_m-tY6Q&feature=youtu.be

<https://www.youtube.com/watch?v=7m2RFf5SNSo&feature=youtu.be>

<https://www.youtube.com/watch?v=gKbK6cBcTAc&feature=youtu.be>

Physics

Rotational Dynamics.

Equilibrium.

Inertia.

Moment of Inertia, Torque & Rolling.

Newton's 2nd law for Rotational Dynamics.

<https://www.youtube.com/watch?v=fmXFWi-WfyU>

<https://www.youtube.com/watch?v=jNc2SflUI9U>

<https://www.youtube.com/watch?v=0kE6Kf7kOZY>

https://www.youtube.com/watch?v=jg4e8W44_E4

Capacitors.

Capacitance.

Charging & Discharging of a Capacitor.

Decay & Growth of the voltage across a capacitor.

Currents in Capacitors.

Capacitors behaving as open switches.

Energy stored.

Time Constant (τ)

https://youtu.be/_mENby1iD20

<https://www.youtube.com/watch?v=W7vY3ldfwP0>

Maths

Book : Building Up Mathematics

Chapter Topic

~~9 Limits of Functions at Infinity~~

~~10 Limits of Functions at a Point~~

~~11 Derivatives~~

25 Functions

~~12 Elementary Trigonometric Equations~~ Suggested by students le by Tony

~~13 Trigonometric Formulas~~ Suggested by students led by Tony

29 Complex Numbers

23 Scalar Products, Vector Products

28 Antiderivatives

~~20 Sequences~~

~~27 Probability H~~

<https://youtu.be/8gLi-ePo7Dw>

<https://youtu.be/WPWnx8dgZQE>

https://youtu.be/ZRQdy5Fe_fE

<https://youtu.be/hkc8NgURhIk>

<https://youtu.be/gNsbFOEf7K0>

https://youtu.be/V4aI3UuL_uM

https://youtu.be/4_nFJgrzXQ0

<https://youtu.be/NvouQml-fzY>

<https://youtu.be/kxgoiM99-Mc>

<https://youtu.be/GZxmP8yPBdk>

<https://youtu.be/P3r-rgVkGRU>

<https://youtu.be/hf7HK8JD0jI>

<https://youtu.be/4pU82vSjdz0>

https://youtu.be/HS_FFhpVNoQ

<https://youtu.be/O6WVsjmVc98>

<https://youtu.be/dvlDLQd0AbU>

<https://youtu.be/qoT3QDTuyfA>

<https://www.youtube.com/watch?v=qLbeVwOfOCs&t=243s>

<https://www.youtube.com/watch?v=Cn7q94lpz-U>

<https://www.youtube.com/watch?v=8WLQ22djYgk&t=2s>

<https://www.youtube.com/watch?v=cBa0PrRFZDk>

<https://www.youtube.com/watch?v=hEVrL9KYo2A>

<https://www.youtube.com/watch?v=EOMMHwJLdKE>

<https://www.youtube.com/watch?v=nvMgy9JXPiU>

Details of content of exams for students that want to move from Class 11S to Class 12E

Chemistry

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<https://www.youtube.com/watch?v=v0-1ape0ojM&feature=youtu.be>

https://www.youtube.com/watch?v=9Y4_fkqbFwx&feature=youtu.be

<https://www.youtube.com/watch?v=U6T7oGNAq5k&feature=youtu.be>

<https://www.youtube.com/watch?v=2-oNsP1m-1Y&feature=youtu.be>

https://www.youtube.com/watch?v=Z-g_QjdvLTQ&feature=youtu.be

<https://www.youtube.com/watch?v=qwUZANr9P1E&feature=youtu.be>

<https://www.youtube.com/watch?v=YylKTFchOUY&feature=youtu.be>

<https://www.youtube.com/watch?v=r1JgHEl0zVs&feature=youtu.be>

<https://www.youtube.com/watch?v=ZuPuWlRGNBw&feature=youtu.be>

<https://www.youtube.com/watch?v=IOfcbd5xiOA&feature=youtu.be>

https://www.youtube.com/watch?v=lgsx_m-tY6Q&feature=youtu.be

<https://www.youtube.com/watch?v=7m2RFf5SNSo&feature=youtu.be>

<https://www.youtube.com/watch?v=gKbK6cBcTAc&feature=youtu.be>

Physics

Mechanical Energy.

Kinetic + Elastic + Gravitational Potential Energies.

Conservative & non conservative systems.

Work & Friction.

<https://www.youtube.com/watch?v=lH72gW4ixrE>

<https://www.youtube.com/watch?v=DyaVgHGssos>

<https://www.youtube.com/watch?v=hce4pncZlI4>

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<https://www.youtube.com/watch?v=W7vY3ldfwP0>

Maths

Book: Building Up Mathematics

Chapter Topic

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~~10 Limits of Functions at a Point~~

~~11 Derivatives~~

25 Functions

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~~13 Trigonometric Formulas~~

29 Complex Numbers

23 Scalar Products, Vector Products

28 Antiderivatives

27 ~~Probability II~~

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<https://youtu.be/WPWnx8dgZQE>

https://youtu.be/ZRQdy5Fe_fE

<https://youtu.be/hkc8NgURhIk>

<https://youtu.be/gNsbFOEf7K0>

https://youtu.be/V4aI3UIL_uM

https://youtu.be/4_nFJgrzXQ0

<https://youtu.be/NvouQml-fzY>

<https://youtu.be/kxgoiM99-Mc>

<https://youtu.be/GZxmP8yPBdk>

<https://youtu.be/P3r-rgVkGRU>

<https://youtu.be/hf7HK8JD0jI>

<https://youtu.be/4pU82vSjdz0>

https://youtu.be/HS_FFhpVNoQ

<https://youtu.be/O6WVsjmVc98>

<https://youtu.be/dvIDLQd0AbU>

<https://youtu.be/qoT3QDTuyfA>

<https://www.youtube.com/watch?v=qLbeVwOfOCs&t=243s>

<https://www.youtube.com/watch?v=Cn7q94lpz-U>

<https://www.youtube.com/watch?v=8WLQ22djYgk&t=2s>

<https://www.youtube.com/watch?v=cBa0PrRFZDk>

<https://www.youtube.com/watch?v=hEVrL9KY02A>

<https://www.youtube.com/watch?v=EOMMHwJLdKE>

<https://www.youtube.com/watch?v=nvMgy9JXPiU>

Biology

- DNA and RNA structures in details
- Dihybrid crosses with linkage
- Transcription and Translation plus the genetic code.

https://youtu.be/Sy_0h_dYiLQ

<https://youtu.be/WslJZ9gK-qA>

https://youtu.be/f7FneyGi2_k

<https://youtu.be/9NroX-XyVh0>

<https://youtu.be/2ixMgbkBgE>

<https://youtu.be/JGRxzL-XfvU>

<https://youtu.be/JGRxzL-XfvU>

<https://youtu.be/diX395EqVj0>

<https://youtu.be/jhCoVyK8vsQ>

<https://youtu.be/8wAwLwJAGHs>

<https://youtu.be/apaP9a079po>